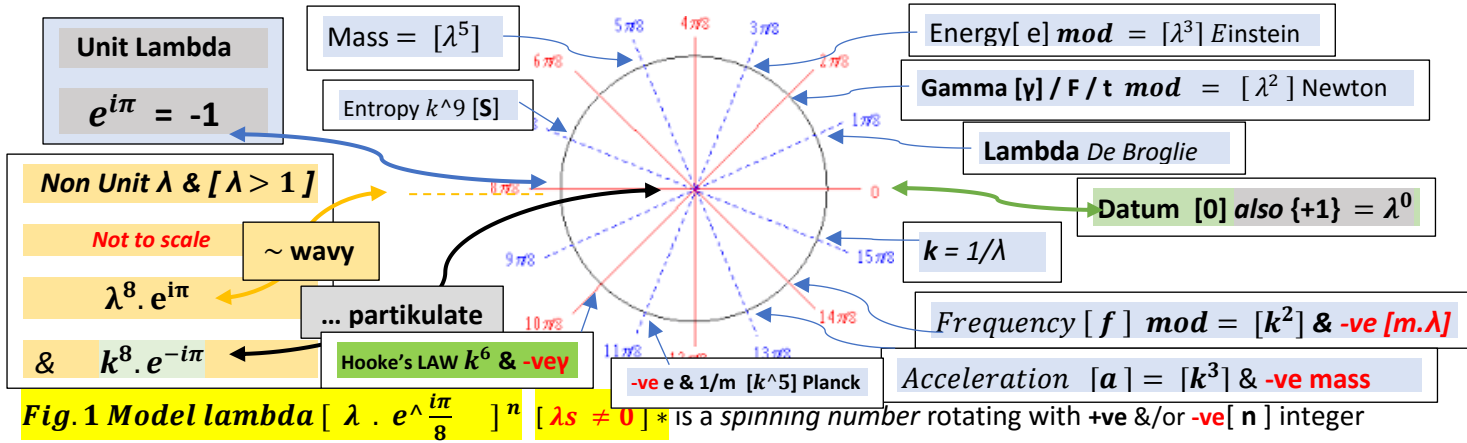


**$\Lambda$  - Model for Physical Systems in Nature:**

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From datum  $[0]$  at  $(n = 0)$  r.h.s., thus  $\left[ \lambda . e^{i\pi/8} \right]^0 = [\lambda^0 . e^0] = [1.1] = 1^2 = \text{Unity modulus}$ ,

to  $\{n \rightarrow \infty\}$ ? capped here at  $(n = (+/-) 16)$  becomes  $\lambda^{16} . e^{i2\pi}$  or modulus  $[\lambda^{16}] \times [1 \text{ complete [acw] revolution}]$ .

The **-ve** integers contribute *simultaneously* one suspects? a **clockwise [cw]** revolution

from datum unity, to  $[\lambda^{-16} . e^{i(-2\pi)}]$  These *contraries* are seamlessly connected at Unity or zero peg above,

and resonate with **+ve & -ve 'arrows of time'** in Physik.

This quasi *continuum locus* looks like an integer **quantized**, or step indexed *Logarithmic spiral*.

***Eadem mutata resurgo.***

As the Lambda model is **scale invariant**, the **Einstein continuum** is preserved in principle, yet each lambda system has its own chunked **De Moivre** type, & displays integer based **Bohr model** characteristic.

Thus we can view the classic **Euler identity**  $e^{i\pi} + 1 = 0$  in model terms as,  $\lambda^8 . e^{i\pi} = -ve 1 . \lambda^8$

where 'unit' lambda applies.

The negative Unity is thus equivalent to model  $[m . m - \text{dot}] = \text{mass} \times \text{energy}$  product.  $[m - \text{dot}] = [dm/dt] = m/\gamma$

&  $[k^8 . e^{-i\pi}]$  in clockwise sense, again for a unity lambda scenario only.

$$\text{System}[k] = \frac{1}{\lambda} \text{ or generally } \lambda^{-n} = [k^n].$$

Example  $(n = 16)$  thus  $[\lambda^{16} . e^{i2\pi}]$ , has an equivalent in system parameters of  $[m^3 . \lambda]s = \text{lambda}^{16}$

i.e. as 1 {element} highest order **[16]**, general degree **[n]** of truncated string polynomial system here.

Rearranged as  $e^{i2\pi} . \lambda^{16} - m^3 \lambda = 0$  has **16 complex root solutions**, i.e. generic root  $[\lambda . e^{i\pi/8}]$

& generally scaling via system lambda & exponent  $[n = +/- \{0,1,2,3...\}]$  applies all pegs of the wheel above.

This *physical\** model  $[\lambda s \neq 0]$  allows also for **-ve** integers as discussed, to illustrate dynamic **equilibrium forces** at work in a 'closed' & yet *evolving\** balanced Lambda system. i.e. potentially a *duplex set*  $[16 \times 2]$  of contemporaneously acting **+ve & -ve integer cycles**, counter phase & respectively  $[\lambda^n \text{ \& } k^n]$  defines the model

**$\lambda$  - scheme in Nature.**

